

**WOLFFKRAN**



## **WOLFF 235 B**

New dimensions  
in assembly and  
maintenance.

**ECONOMICAL – PRACTICAL – PROVEN**

## The WOLFF 235 B

### Proven performance for high volume reinforced concrete projects

- Solid duty chart based on the popular WOLFF 224 B
- Maximum load capacities of 8 tonnes in 1-fall operation and 16 tonnes in 2-fall operation
- Basic jib of 30 meters that can be extended in 5-meter increments up to 60 meters
- **Class-leading performance with a 50 meter jib offering a maximum load capacity of 16 tonnes\* and a tip load capacity of 4.1 tonnes\*\***
- Efficient 60 kW hoisting winch with a hook speed of 130 m/min and a hook path of 620 meters

### Minimal jib radius for maximum safety

Fitted with an active absorber, the WOLFF 235 B achieves a smaller minimum jib radius of 10% of the jib length.

The steeper jib position means that the load can be picked up closer to the tower, which is a particular advantage at cramped city construction sites, as trucks can be unloaded closer to the crane and loads do not have to be lifted over adjacent roads.

### Freestanding as needed

The WOLFF 235 B comes with a connection to the 2-meter UV/TV 20 tower for which both an internal and an external WOLFF Climbing System are available. Using standard components from the modular WOLFF tower system, it can reach a remarkable freestanding tower height of 82 meters.

### Low assembly weights

Overall low component weights make it possible that a WOLFF 235 B can assemble another of its kind at a jib radius of 40 meters – a very popular process on multi-crane city sites with limited space as well as saving on time and money spent for a mobile crane.

\*in 2-fall operation  
\*\*in 1-fall operation with WOLFF Boost activated



**Its hidden strengths:**

## **Economical maintenance**

### **Identical winches and proven components**

Both the hoisting and luffing gear of the WOLFF 235 B are powered by the exact same efficient 60 kW winch that is used in numerous other WOLFF crane models. The same holds true for the slewing gear and the frequency converters.

Aside from integrating proven technology, this stands for economical warehousing as fewer different spare parts have to be stocked and also simplifies training of service technicians.

The same principle applies to four 8-tonne counterweight blocks that are used in all next larger WOLFF luffing jib cranes.

### **Easy access**

The position of the luffing gear at the bottom of the tower top allows particularly convenient and safe access to the luffing winch from the counter jib. The slewing gear can be serviced from an auxiliary platform.

## **Efficient assembly**

### **Complete pre-assembly of the jib**

The hoisting winch is positioned on the jib rather than the counter jib as is typical.

This makes it possible to reeve the hoisting rope on the ground and thus completely pre-assemble the entire jib, which is much safer and more efficient than reeving the rope in the air.

### **Flexible assembly of the luffing gear**

For the installation process, the luffing gear can be mounted either on the counter jib or on the tower top, which offers more flexibility with regard to the size of the mobile crane.

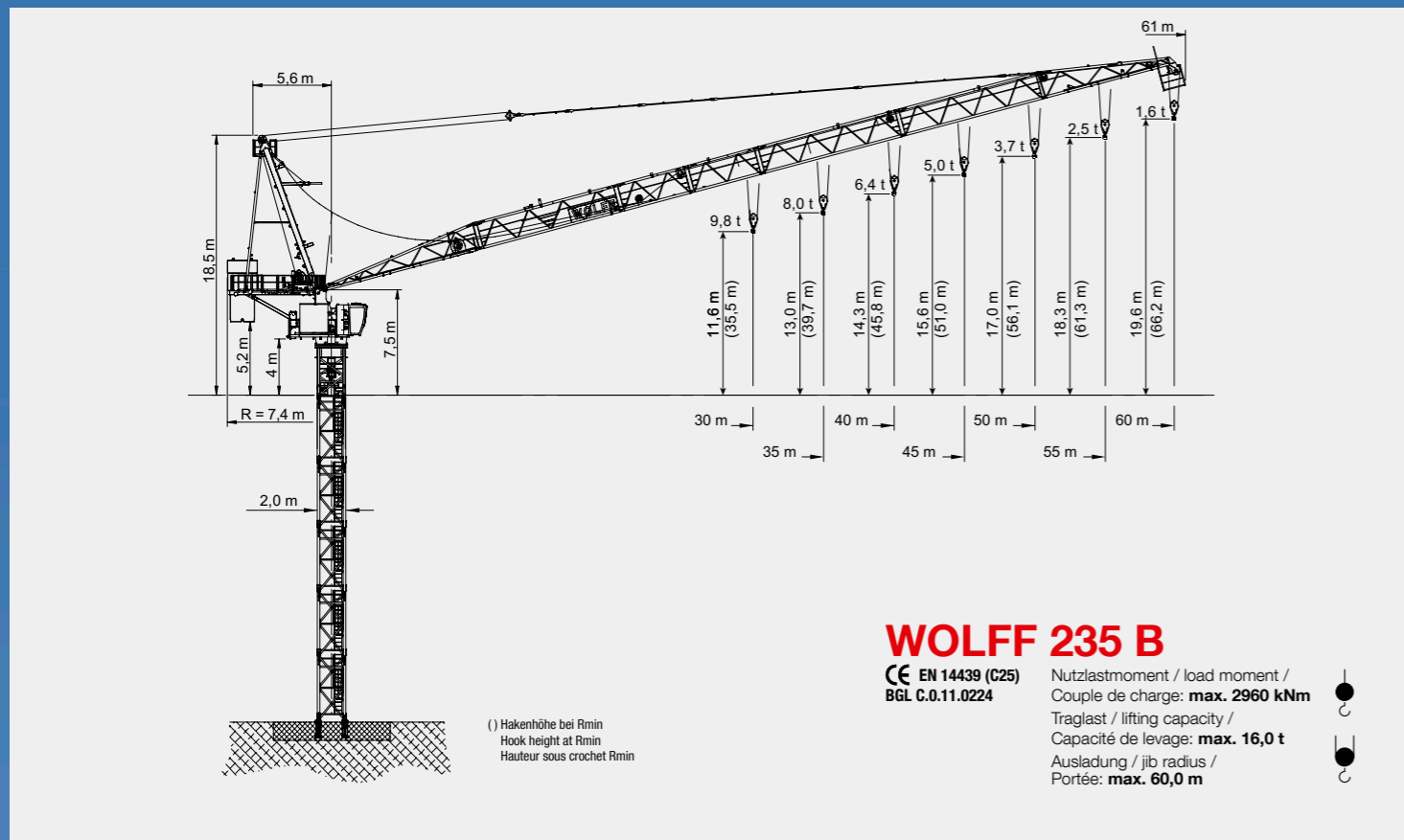
Mounting the luffing gear on the tower top has the advantage that the entire tower top including the hoisting gear with pre-reeved pulley block can be transported and lifted onto the crane as a single unit.

The cabin platform with the WOLFF Cab and switch cabinet can be placed on the empty counter jib during transportation.



## Technical Information

### Plan Drawing – WOLFF 235 B



### Load Chart (t) – WOLFF 235 B

**Traglasten (t) · WOLFF 235 B**  
**Load Data**  
**Charges**

Ausladung (m) / jib radius (m) / Portée (m)		20	25	30	35	40	45	50	55	60		
Auslegerlänge (m) jib length (m) Longueur de flèche (m)	60	6,0 - 26,5	8,0	8,0	6,7	5,2	4,1	3,3	2,6	2,1	<b>1,6</b>	Tragfähigkeit (t)* load capacity (t)* Capacité de charge (t)*
	55	5,5 - 28,0	8,0	8,0	7,3	5,8	4,6	3,8	3,1	<b>2,5</b>		
	50	5,0 - 29,5	8,0	8,0	7,8	6,4	5,3	4,4	<b>3,7</b>			
	45	4,5 - 31,0	8,0	8,0	8,0	6,9	5,8	<b>5,0</b>				
	40	4,0 - 33,0	8,0	8,0	8,0	7,5	<b>6,4</b>					
	35	3,5 - 35,0	8,0	8,0	8,0	<b>8,0</b>						
	30	3,5 - 30,0	8,0	8,0	<b>8,0</b>							
Auslegerlänge (m) jib length (m) Longueur de flèche (m)	60	6,0 - 20,0	<b>10,0</b>	10,0	7,4	5,6	4,3	3,4	2,7	2,1	<b>1,6</b>	Tragfähigkeit (t)* load capacity (t)* Capacité de charge (t)*
	55	5,5 - 18,0	<b>12,0</b>	10,5	7,9	6,1	4,9	3,9	3,2	2,6	<b>2,1</b>	
	50	5,0 - 16,5		12,7	9,6	7,5	6,0	4,9	4,0	<b>3,3</b>		
	45	4,5 - 17,0		13,3	10,1	8,1	6,6	5,5	<b>4,6</b>			
	40	4,0 - 17,5		13,8	10,7	8,6	7,1	<b>6,0</b>				
	35	3,5 - 18,0		14,3	11,3	9,3	<b>7,8</b>					
	30	3,5 - 18,5		14,8	11,8	<b>9,8</b>						

**Traglasten (t) · WOLFF 235 B (Boost)**  
**Load Data**  
**Charges**

Ausladung (m) / jib radius (m) / Portée (m)		20	25	30	35	40	45	50	55	60		
Auslegerlänge (m) jib length (m) Longueur de flèche (m)	60	6,0 - 28,3	8,0	8,0	7,3	5,7	4,5	3,6	2,9	2,3	<b>1,8</b>	Tragfähigkeit (t)* load capacity (t)* Capacité de charge (t)*
	55	5,5 - 29,9	8,0	8,0	8,0	6,3	5,1	4,2	3,4	<b>2,8</b>		
	50	5,0 - 31,7	8,0	8,0	8,0	7,0	5,8	4,8	<b>4,1</b>			
	45	4,5 - 33,5	8,0	8,0	8,0	7,6	6,4	<b>5,5</b>				
	40	4,0 - 35,9	8,0	8,0	8,0	8,0	<b>7,0</b>					
	35	3,5 - 35,0	8,0	8,0	8,0	<b>8,0</b>						
	30	3,5 - 30,0	8,0	8,0	<b>8,0</b>							
Auslegerlänge (m) jib length (m) Longueur de flèche (m)	60	6,0 - 21,5	<b>10,0</b>	10,0	8,1	6,2	4,8	3,7	2,9	2,3	<b>1,8</b>	Tragfähigkeit (t)* load capacity (t)* Capacité de charge (t)*
	55	5,5 - 19,4	<b>12,0</b>	11,6	8,7	6,7	5,3	4,3	3,5	2,8	<b>2,3</b>	
	50	5,0 - 17,9		14,0	10,5	8,2	6,6	5,4	4,4	<b>3,6</b>		
	45	4,5 - 18,5		14,6	11,2	8,9	7,2	6,0	<b>5,1</b>			
	40	4,0 - 19,1		15,2	11,7	9,5	7,8	<b>6,6</b>				
	35	3,5 - 19,7		15,7	12,4	10,2	<b>8,6</b>					
	30	3,5 - 20,3		16,0	13,0	<b>10,8</b>						

### Drives – WOLFF 235 B (Hw 1660 FU)

**Antriebe · WOLFF 235 B · (Hw 1660 FU)**  
**Mechanisms**  
**Mécanismes**

Motor [kW] motor Moteur	60	60	60	1 x 7,5	8 x 5,5
Geschwindigkeit speed Vitesse	0 - 1,7 t 0 ... 130 m/min stufenlos / stepless / en continue 0 - 8,0 t 0 ... 37 m/min	0 - 4,0 t 0 ... 65 m/min stufenlos / stepless / en continue 0 - 16,0 t 0 ... 19 m/min	1,3 ... 1,8 min	0,8 min <sup>-1</sup>	30,0 m/ min
Hakenweg [m] hook path Course du crochet	620	310			

\*Loads in 1-fall refer to the use of a hook suspension. When using the U8/16 hook block, the load capacity is reduced by 250 kg.

## Secondary brakes for enhanced safety



A maintenance-free multi-disk secondary brake on the luffing winch is included as standard and available as an option for the hoisting winch.

The crane control has been enhanced with a brake testing function allowing the main and secondary brakes to be tested independently of each other.



## The WOLFF Standard

### **Best all-round visibility from the WOLFF CAB**

Best all-round visibility from the WOLFF CAB The WOLFF CAB crane cabin offers optimum visibility and overview. The adjustable seat and ergonomically designed control panels allow for fatigue-free working. Tinted windows, quality blinds, an effective heating system and air conditioning ensure a comfortable working environment, regardless of season or climate zone. Further amenities such as a radio with SD/USB ports and Bluetooth, a drinks cooler, plenty of sockets and ample storage space are also included as standard. An easy-to-read 7-inch touchscreen color monitor optimally supports the crane operator.



### **Economical transportation on land and water**

All components of the WOLFF 235 B with a full 60-meter jib fit on only seven trucks and are quickly loaded and unloaded thanks to proven suspension brackets on all components. The components are also optimized for transportation in standard 40-foot high cube containers for overseas shipping.



### **Everything under (WOLFF Crane) control**

WOLFF cranes are fitted with the latest crane controls to ensure highest levels of safety. They adjust the performance of all drives to the requirements of the job site and support the crane operator with many security features, such as overload protection, working range limitation and an anti-collision interface. Also integrated as standard is the WOLFF Boost function increasing load capacity by 10% by automatically turning off one of the drives, as well as the remote diagnostic and maintenance tool WOLFF Link with real-time display of the crane operator's monitor.



### **Best service for best performance**

WOLFF cranes are fitted with platforms, railings and further elements designed to increase safety around all major crane components and parts. Further, all WOLFF cranes feature an electrical central lubrication of the slew ring, a slip ring mechanism for optimal signal transmission and a temperature-controlled switch cabinet with heating and ventilation ensuring efficient and uninterrupted operating time of the crane. Together with the remote maintenance options offered by WOLFF Link and the experienced quick-response WOLFF Service-Teams nearby, you can rest assured that the WOLFF cranes on your site will perform day in and out.



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**Der Leitwolf**

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